

Title (en)

Apparatus and method for welding tubular members.

Title (de)

Verfahren zum Verschweissen von rohrförmigen Teilen.

Title (fr)

Procédé pour le soudage d'éléments tubulaires.

Publication

EP 0663279 A2 19950719 (EN)

Application

EP 95300157 A 19950111

Priority

JP 1478794 A 19940113

Abstract (en)

A welding apparatus to be applied to a welding method of a non-contact type comprises a pair of clamp devices for clamping tubular members made of a thermoplastic resin, and a heater for heating to melt end faces of the tubular members, wherein the clamp devices and heater are arranged to be movable by respective drive devices. A control unit controls the drive devices in such a manner that after completion of fusion of the end faces of the tubular members, the heater is moved to a withdrawn position and thereafter one of the clamp devices is moved in a predetermined direction to bring the end faces into contact with each other. Further, the control unit controls the drive device so that after contact of the end faces with each other, the clamp device is further moved by a predetermined amount. The time period between completion of fusion of the end faces and contact of the end faces with each other is set to a time in which the end faces are prevented from reaching a state unsuitable for welding, and the speed of movement of the clamp device after contact of the end faces with each other is kept approximately constant. By this means, the bead formed in the weld portion between the tubular members is made substantially constant and desired weld strength is attained. <IMAGE>

IPC 1-7

B29C 65/14

IPC 8 full level

B29C 65/20 (2006.01); **B29C 65/00** (2006.01)

CPC (source: EP)

B29C 65/1432 (2013.01); **B29C 65/20** (2013.01); **B29C 65/7841** (2013.01); **B29C 66/1142** (2013.01); **B29C 66/5221** (2013.01); **B29C 66/73921** (2013.01); **B29C 66/93441** (2013.01); **B29C 66/939** (2013.01); **B29C 66/9672** (2013.01); **B29C 65/782** (2013.01); **B29C 66/71** (2013.01); **B29C 66/94** (2013.01); **B29C 66/949** (2013.01)

Cited by

EP1136234A1; WO9615898A1; WO2018076400A1; WO2023061594A1

Designated contracting state (EPC)

AT DE FR GB

DOCDB simple family (publication)

EP 0663279 A2 19950719; EP 0663279 A3 19960821

DOCDB simple family (application)

EP 95300157 A 19950111